CONTENTS VOLUME 7 (1988)

Vol. 7, No. 1 (April 1988)

Iontophoretic delivery of drugs: Fundamentals, developments and biomedical applications (*Review*)
A.K. Banga and Y.W. Chien (Piscataway, NJ, U.S.A.) 1
Autoencapsulation: A new method for entrapping pesticides within starch
D. Trimnell and B.S. Shasha (Peoria, IL, U.S.A.) 25
Amylose content of starch controls the release of encapsulated bioactive agents
R.E. Wing, S. Maiti and W.M. Doane (Peoria, IL, U.S.A.) 33
Uptake of ^{14}C-simetryn by duckweed (*Lemna minor*) during release from a polymer matrix and the consequent herbicidal effects
M. Kamal (Aleppo, Syria), G. Pfister, M. Bahadir and J.P. Lay (Neuherberg, F.R.G.) 39
Zero-order release of oxprenolol-HCl, a new approach
W.E. Roorda, M.A. de Vries, L.G.J. de Leede, A.G. de Boer, D.D. Breimer and H.E. Junginger (Leyden, The Netherlands) 45
Rate-controlled absorption enhancement of rectally administered cefoxitin in rats by salicylate
E.J. van Hoogdalen, H.J.M. van Kan, A.G. de Boer and D.D. Breimer (Leyden, The Netherlands) 53
Solute and penetrant diffusion in swellable polymers. VIII. Influence of the swelling interface number on solute concentration profiles and release
J. Klier and N.A. Peppas (West Lafayette, IN, U.S.A.) 61
A one-week subdermal delivery system for L-methadone based on biodegradable microcapsules
Y. Cha and C.G. Pitt (Research Triangle Park, NC, U.S.A.) 69
Comparative *in vitro* release profiles of marketed nitroglycerin patches by different dissolution methods
V.P. Shah (Rockville, MD, U.S.A.), N.W. Tymes (Baltimore, MD, U.S.A.) and J.P. Skelly (Rockville, MD, U.S.A.) 79
Book Reviews 87
Current U.S. Patents 91
News from the Controlled Release Society 95
Calendar 99

Vol. 7, No. 2 (July 1988)

Controlled activity polymers. VI. Acrylamide copolymers with structopendent naphthylacetic acid and indoleacetic acid esters: Synthesis and characterization
C.L. McCormick and K. Kim (Hattiesburg, MS, U.S.A.) 101
Controlled activity polymers. VII. Acrylamide copolymers with structopendent naphthylacetic acid and indoleacetic acid esters: Release behaviour
C.L. McCormick, K. Kim and S.A. Ezzell (Hattiesburg, MS, U.S.A.) 109
Preparation and characterization of liposomes with incorporated *Neisseria gonorrhoeae* protein IB and amphiphilic adjuvants
F. van Dalen (Utrecht, The Netherlands), G. Kersten, T. Teerlink, E.C. Beuvery (Bilthoven, The Netherlands) and D.J.A. Crommelin (Utrecht, The Netherlands) 123
Evaluation of povidone–lanolin alcohol films by *in vitro* release of cortisol
R.A. Patel, M.S. Treki and R.C. Vasavada (Stockton, CA, U.S.A.) 133
Scintigraphic study of the gastro-intestinal transit and correlations with the drug absorption kinetics of a sustained release theophylline tablet. I. Administration in fasting state
M. Sournac (Castres, France), J.-C. Maublant, J.-M. Aiache, A. Veyre (Clermont-Ferrand, France) and J. Bougaret (Castres, France) 139
A study of the leaching/retention of water-soluble polymers in blends with ethylcellulose using torsional braid analysis
P. Sakellariou (Manchester, Great Britain), R.C. Rowe (Macclesfield, Great Britain) and E.F.T. White (Manchester, Great Britain) 147
Plasma melatonin concentrations in ewes following administration of an intraruminal soluble glass/melatonin bolus
A.L. Poulton (Guildford, Great Britain) and M.I. Kelly (Ormskirk, Great Britain) 159

Permeability characteristics of calcium alginate films
T.N. Julian, G.W. Radebaugh and S.J. Wisniewski (Fort Washington, PA, U.S.A.) 165
Physico-chemical characterization of ethylcellulose drug-loaded cast films
V. Rosilio, L. Roblot-Treupel, M. de Lourdes Costa and A. Baszkin (Châtenay-Malabry, France) 171
Rapid Communication Note
Surface instabilities during swelling of pH-sensitive hydrogels
W.R. Drummond, M.L. Knight, M.L. Brannon and N.A. Peppas (West Lafayette, IN, U.S.A.) 181
Book Reviews 185
Current U.S. Patents 187
News from the Controlled Release Society 192
Calendar 194

Vol. 7, No. 3 (September 1988)

Prednisolone release from copolyurethane monolithic devices
K. Sharma, K. Knutson and S.W. Kim (Salt Lake City, UT, U.S.A.) 197
A model of dissolution-controlled, diffusional drug release from non-swellable polymeric microspheres
R.S. Harland (West Lafeyette, IN, U.S.A.), C. Dubernet, J.-P. Benoît (Châtenay-Malabry, France) and N.A. Peppas (West Lafayette, IN, U.S.A.) 207
Biodegradable cisplatin microspheres prepared by the solvent evaporation method: Morphology and release characteristics
J.-P. Benoît (Châtenay-Malabry, France), F. Chabot (Mont-St-Aignan, France) and M. Veillard (Antony, France) 217
Sustained release device containing minocycline for local treatment of periodontal disease
R. Elkayam, M. Friedman, A. Stabholz, A.W. Soskolne, M.N. Sela (Jerusalem, Israel) and L. Golub (Stony Brook, NY, U.S.A.) 231
Bioactivity of controlled release formulations of starch-encapsulated EPTC
M.M. Schreiber, M.D. White (West Lafayette, IN, U.S.A.), R.E. Wing, D. Trimnell and B.S. Shasha (Peoria, IL, U.S.A.) 237
Transdermal delivery of levonorgestrel I: Alkanols as permeation enhancers *in vitro*
D. Friend, P. Catz, J. Heller, J. Reid and R. Baker (Menlo Park, CA, U.S.A.) 243
Transdermal delivery of levonorgestrel II: Effect of prodrug structure on skin permeability *in vitro*
D. Friend, P. Catz, J. Heller, J. Reid and R. Baker (Menlo Park, CA, U.S.A.) 251
Entrapment of herbicides in starch for spray applications
D. Trimnell and B.S. Shasha (Peoria, IL, U.S.A.) 263
Parameters affecting the controlled release of copper from a styrene–butadiene rubber matrix
F.M. Helaly and A.S. Badran (Cairo, Egypt) 269
Near constant release of KCl from an inwardly releasing matrix tablet
S. Engström (Lund, Sweden) 275
In vitro degradation of poly(γ-benzyl L-glutamate)/poly(ethylene glycol) block copolymers (*Short Communication*)
C.S. Cho and S.U. Kim (Kwangju, Korea) 283
Book Reviews 287
Current U.S. Patents 290
News from the Controlled Release Society 295
Calendar 297
Author Index Volume 7 (1988) 299